

NEW RECORDS OF ODONATA FOR ALABAMA AND TENNESSEE, WITH SIGNIFICANT RANGE EXTENSIONS FOR SEVERAL SPECIES¹

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In this paper, five species of Odonata are added to the state list of Alabama, and three are added to the state list of Tennessee.

Calopteryx angustipennis (Selys) in Alabama

Charles Gooch and I collected a total of seven males and eight females of *C. angustipennis* on May 9 and May 13, 1977, at Butler Creek, near Hwy. 11, Lauderdale County, Alabama. Discovery of *C. angustipennis* in this locality significantly increases the known range of this species, which, before this collection, included Georgia, Indiana, Kentucky, North Carolina, Ohio, Pennsylvania, South Carolina, Tennessee, and West Virginia (Johnson 1974). The Butler Creek locality extends the range by about 300 km southwest of a line drawn through the previously known western localities (Fig. 1). Butler Creek is a clear, swiftflowing, shallow stream with mostly gravel and rock substrate.

Johnson (1974) found that the sternum of segment 10 was black in *C. angustipennis* males from Kentucky, Pennsylvania, and Tennessee, whereas it was white in males from North Carolina, South Carolina, and West Virginia. He questioned this variability in a character that is apparently displayed to the female during reproductive behavior. All seven males from Butler Creek have a white spot on the sternum of abdominal segment 10, but the size of the spot varies.

The other species of *Calopteryx* known to occur in Alabama are *C. maculata* (Beauvois) and *C. dimidiata* Burmeister. The known range of *C. dimidiata* was also extended with the collection of a male at Butler Creek, on August 22, 1977, and a female at Indian Creek, in Wayne County, Tennessee, on August 16, 1977. These localities lie in the supposed distributional hiatus between eastern Tennessee and northern Louisiana shown by Johnson (1973; 1974).

Archilestes grandis (Rambur) and *Lestes congener* Hagen in Alabama

E. Pickard and I collected a single male of each species at a strip mine

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Figure 1. Known distribution of *Calopteryx angustipennis* (Selys) in eastern United States (modified with permission from Johnson, 1974).

pond off Hwy. 233, in Marion County, Alabama.

Neurocordulia yamaskanensis (Provancher) in Alabama and Tennessee

A total of 21 males and 3 males of *N. yamaskanensis* were collected between June 6 and June 25, 1976, along the south shore of Wilson Lake, Colbert County, Alabama. Also, nymphs were found clinging to large, sunken logs near the shore. On June 3, 1976, A.H. Price and R.N. Brown collected a teneral female of *N. yamaskanensis* in a field near the Tennessee River, east of Saultillo, in Decatur County, Tennessee. These localities extend the known range far to the southwest of that previously recorded: Connecticut, Kentucky, Maine, Michigan, Missouri, Ohio, Pennsylvania, and West Virginia (Needham and Westfall 1955); Wisconsin (Hilsenhoff 1972); and Virginia (Roback and Westfall 1967).

Gomphus (*Stylurus*) *townesi* Gloyd in Alabama

On August 2, 1973, I collected one female of *G. townesi* at the Conecuh River near Hwy. 4, Escambia County, Alabama.

Gomphaeschna furcillata (Say) and *Celithemis verna* Pritchard in Tennessee

On May 19, 1976, I collected one male of *G. furcillata* that was flying around a pond at Savage Point, near Dunlap, in Sequatchie County, Tennessee. R.N. Brown collected a nymph believed to be *Celithemis* from this same pond on May 12, 1976. Although the nymph itself was not identified with certainty, a male of *Celithemis verna* emerged on June 7.

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